

GRADE AND TONNAGE MODEL OF SOUTHEAST MISSOURI Pb-Zn AND APPALACHIAN Zn DEPOSITS

By Dan L. Mosier and Joseph A. Briskey

COMMENTS The models for stratabound carbonate-hosted Pb-Zn deposits, and for stratabound carbonate-hosted Zn deposits, are treated as end members that, in a general way, define a larger class of geologically complex stratabound carbonate-hosted deposits containing variable proportions of Pb or Zn. Grade-tonnage estimates were made for districts only, because of difficulties in defining the limits of an individual deposit within these typically large regionally mineralized systems. Numerous small districts containing less than about a million tonnes of ore are not included in this compilation, mainly because of the paucity of reliable data about reserves and past production, but also because they are outside the scope of this investigation. Lead grade is correlated with silver grade ($r = 0.87$, $n = 10$). See figs. 168-171.

DEPOSITS

<u>Name</u>	<u>Country</u>	<u>Name</u>	<u>Country</u>
Alpine-Lafatsch	ASTR-ITLY-YUGO	Nanisivik	CNNT
Austinvile	USVA	Newfoundland Zinc	CNNF
Central Missouri	USMO	North Arkansas-Ozark	USAR
Central Tennessee	USTN	Pine Point	CNNT
East Tennessee	USTN	Polaris-Eclipse	CNNT
Friedensville	USPA	Robb Lake	CNBC
Gayna R.-Godlin L.	CNNT	Southeast Missouri	USMO
Kentucky-Illinois	USKN	Tri State	USMO-USOK
Metalline	USWA	Upper Mississippi Valley	USWI
Monarch-Kicking Horse	CNBC	Upper Silesia	PLND

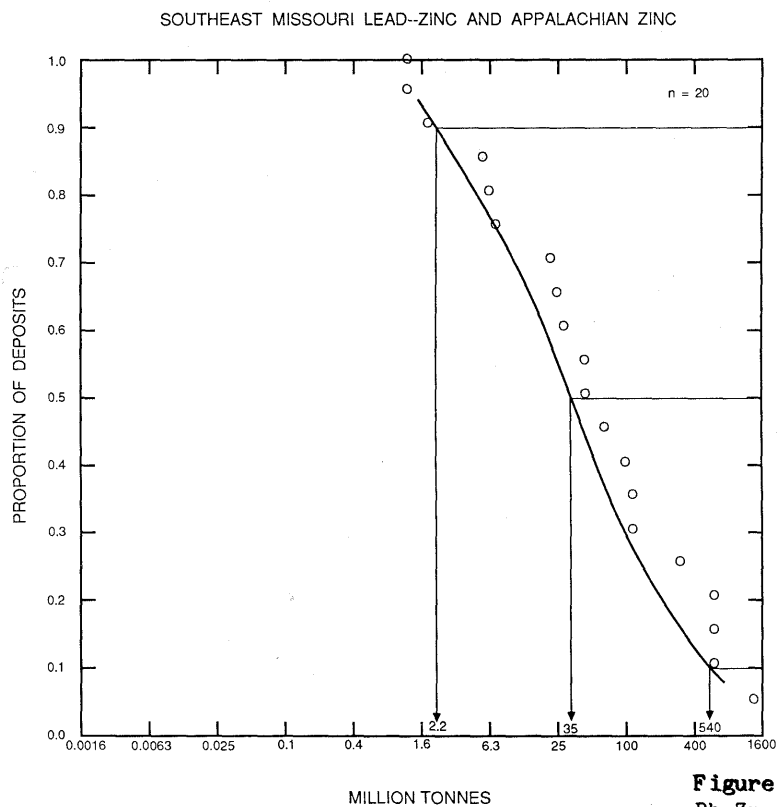


Figure 168. Tonnages of southeast Missouri Pb-Zn and Appalachian Zn deposits.

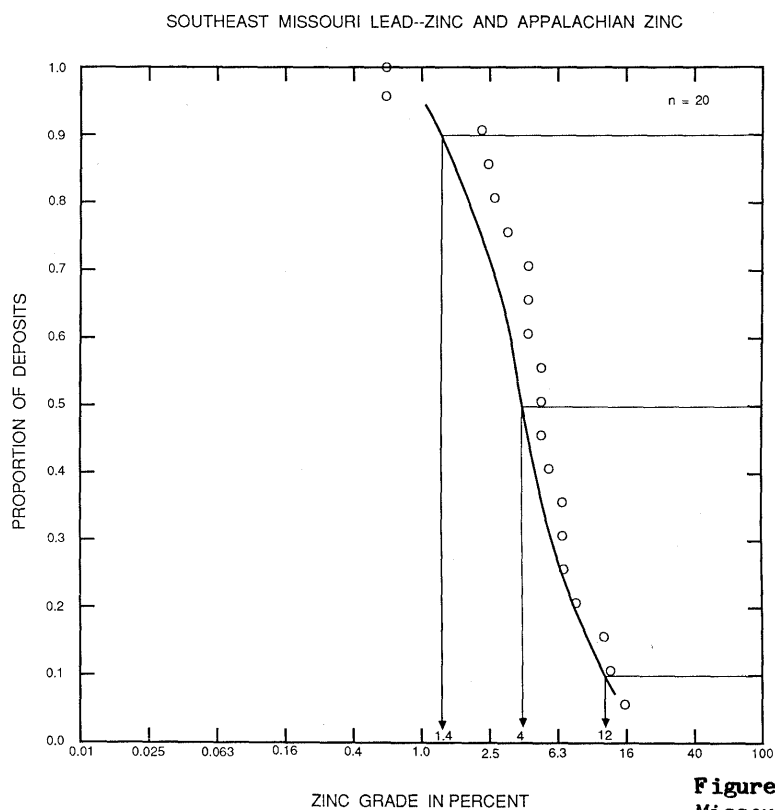


Figure 169. Zinc grades of southeast Missouri Pb-Zn and Appalachian Zn deposits.

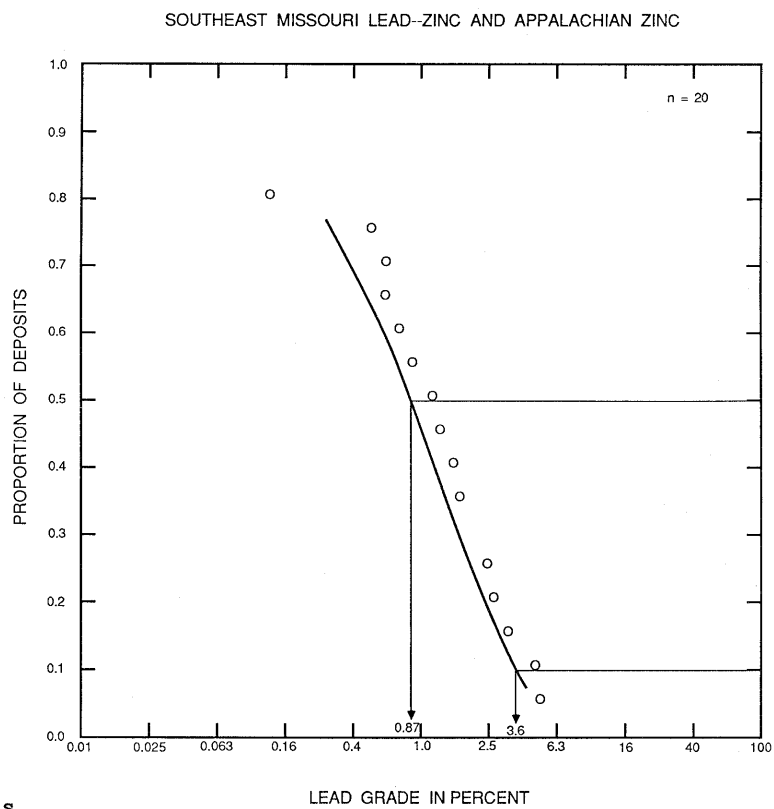


Figure 170. Lead grades of southeast Missouri Pb-Zn and Appalachian Zn deposits.

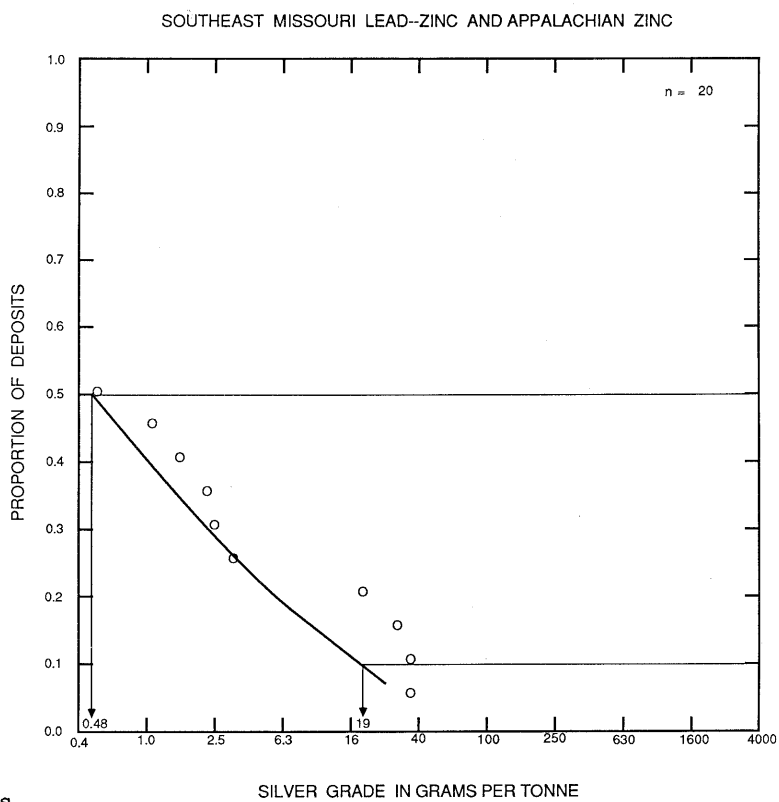


Figure 171. Silver grades of southeast Missouri Pb-Zn and Appalachian Zn deposits.